

APPARATUS AND METHOD FOR
OPERATING A FUEL REFORMER TO
REGENERATE A DPNR DEVICE
William Taylor, III et al.
9501-72542/02MRA0416CIP

1 / 15

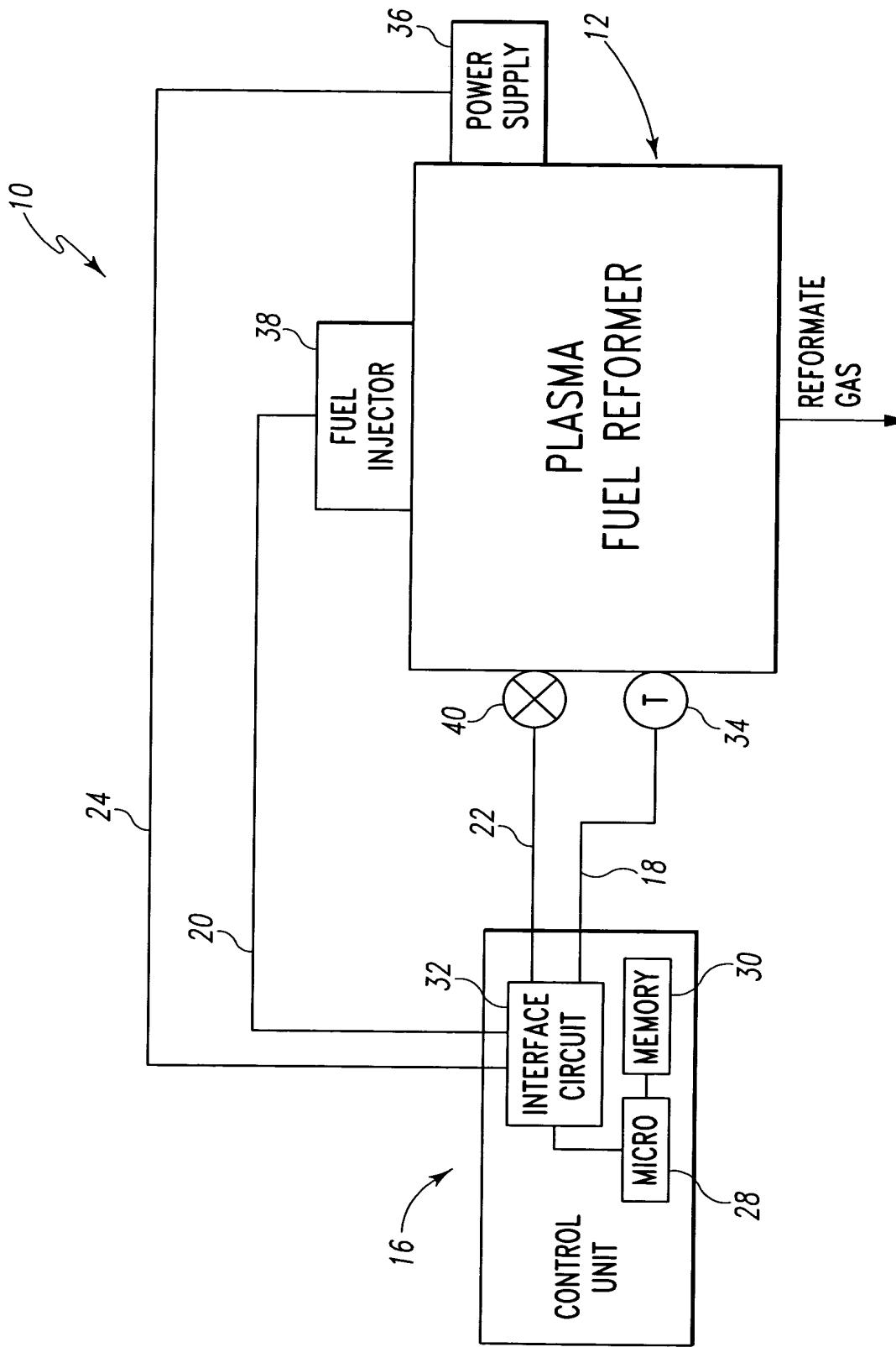


Fig. 1

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2/15

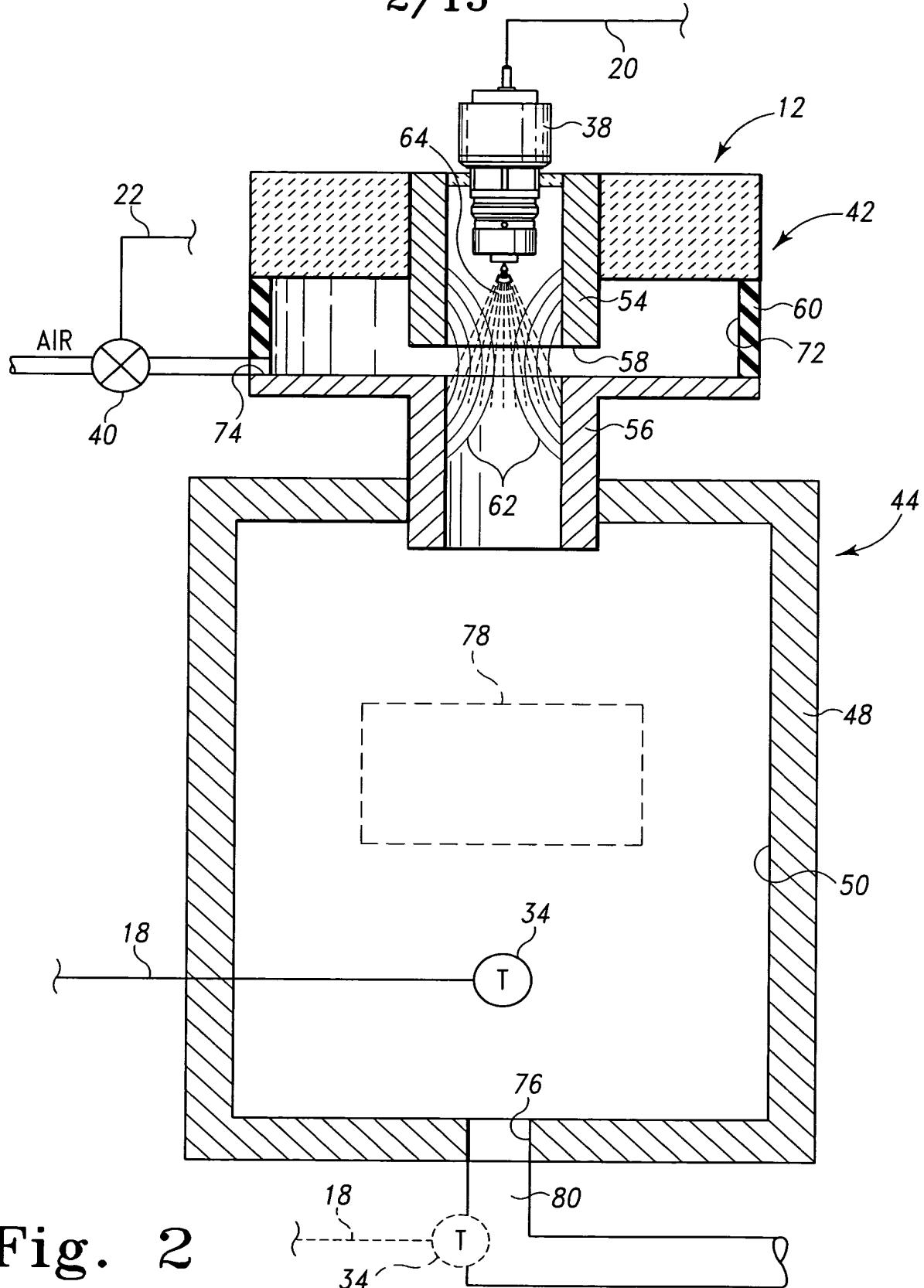


Fig. 2

3 / 15

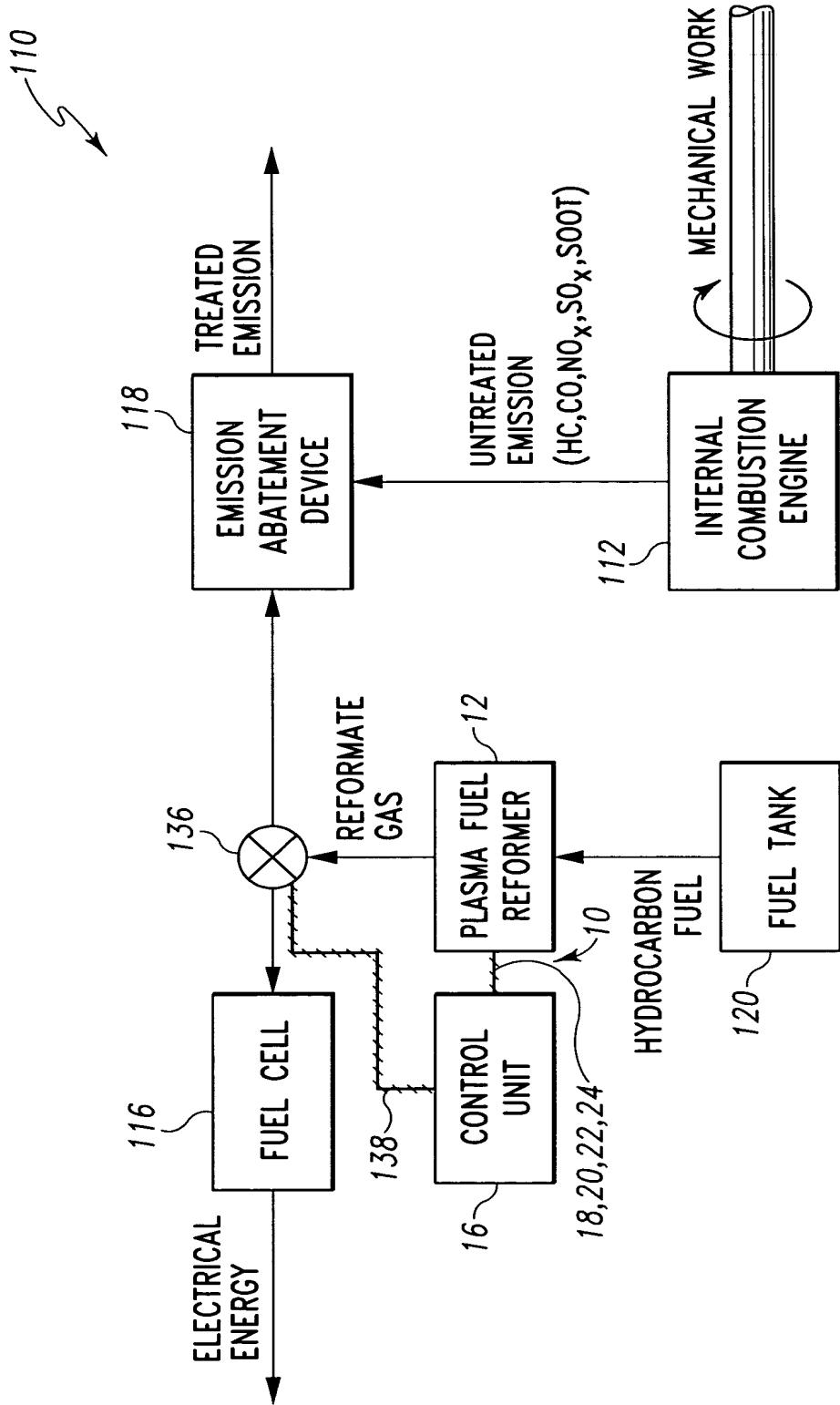


Fig. 3

4 / 15

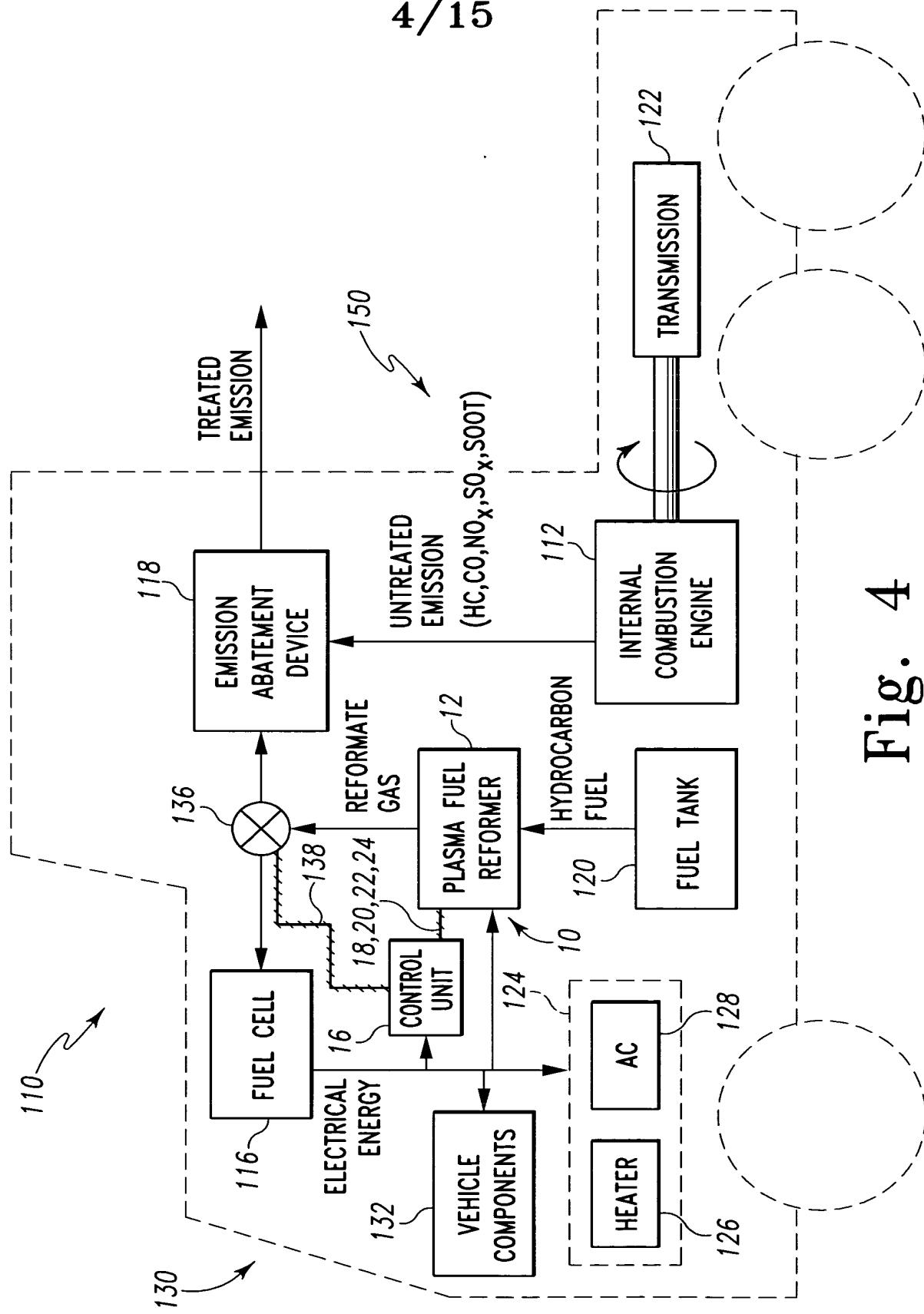


Fig. 4

5 / 15

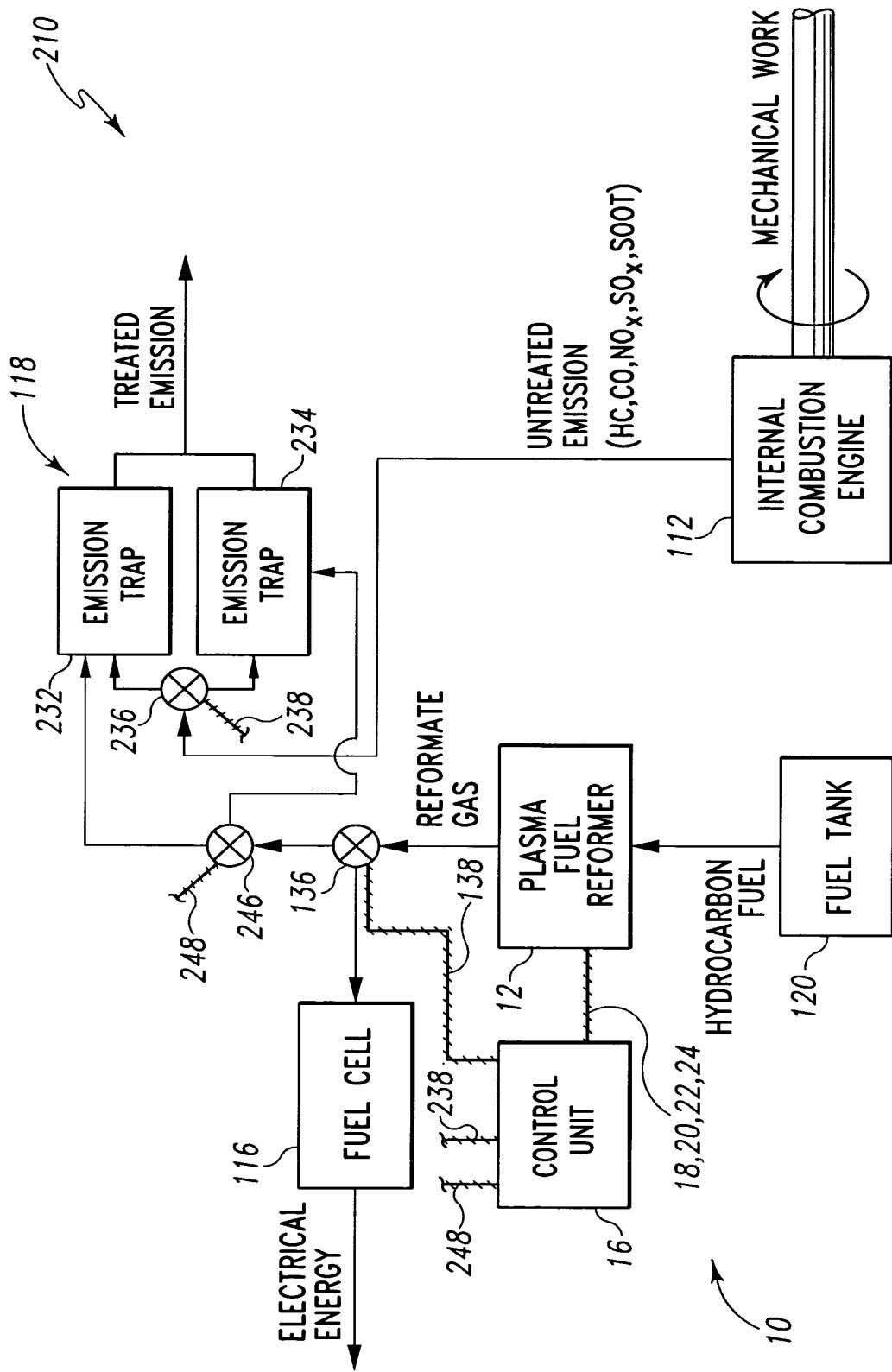


Fig. 5

6 / 15

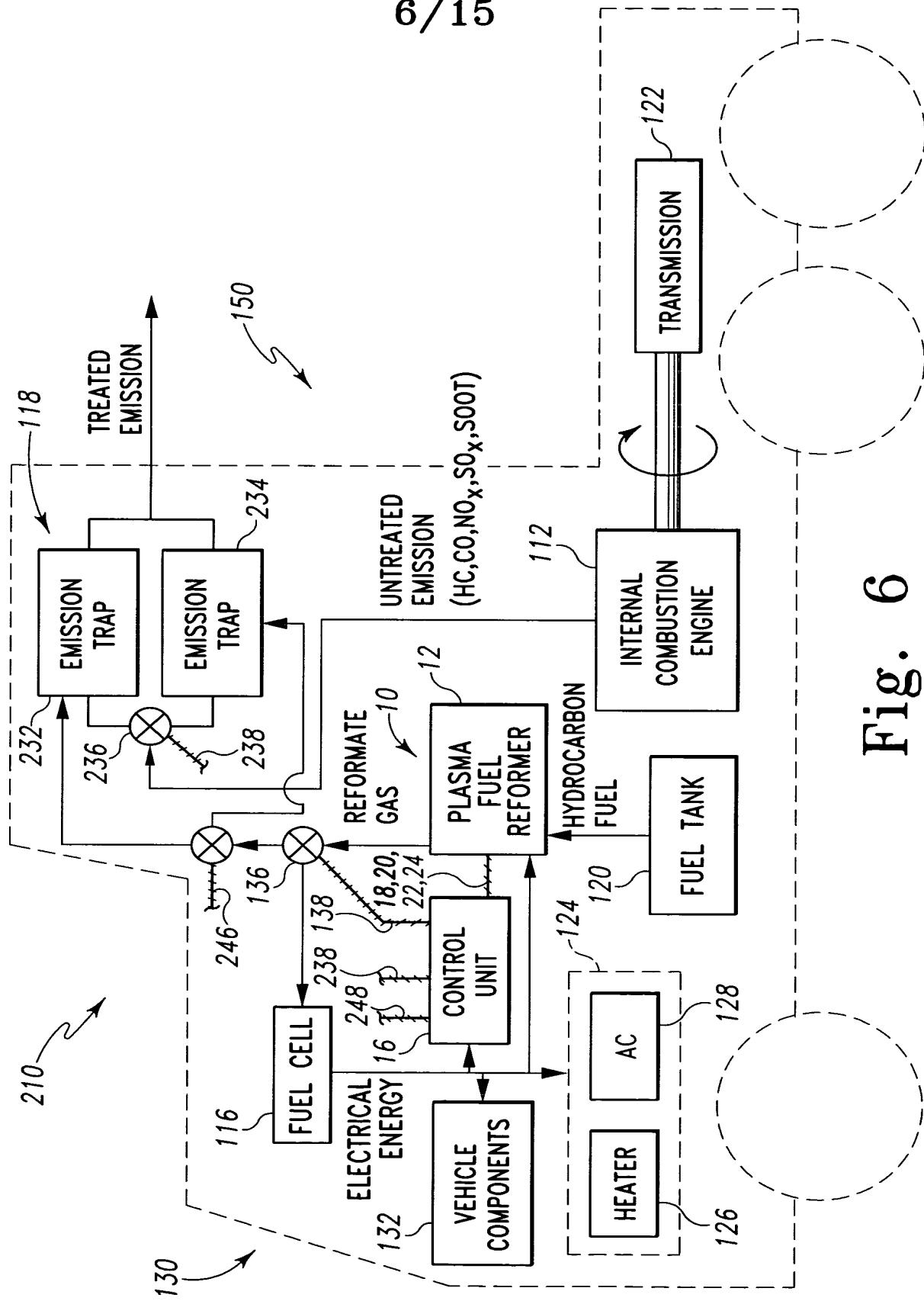


Fig. 6

7/15

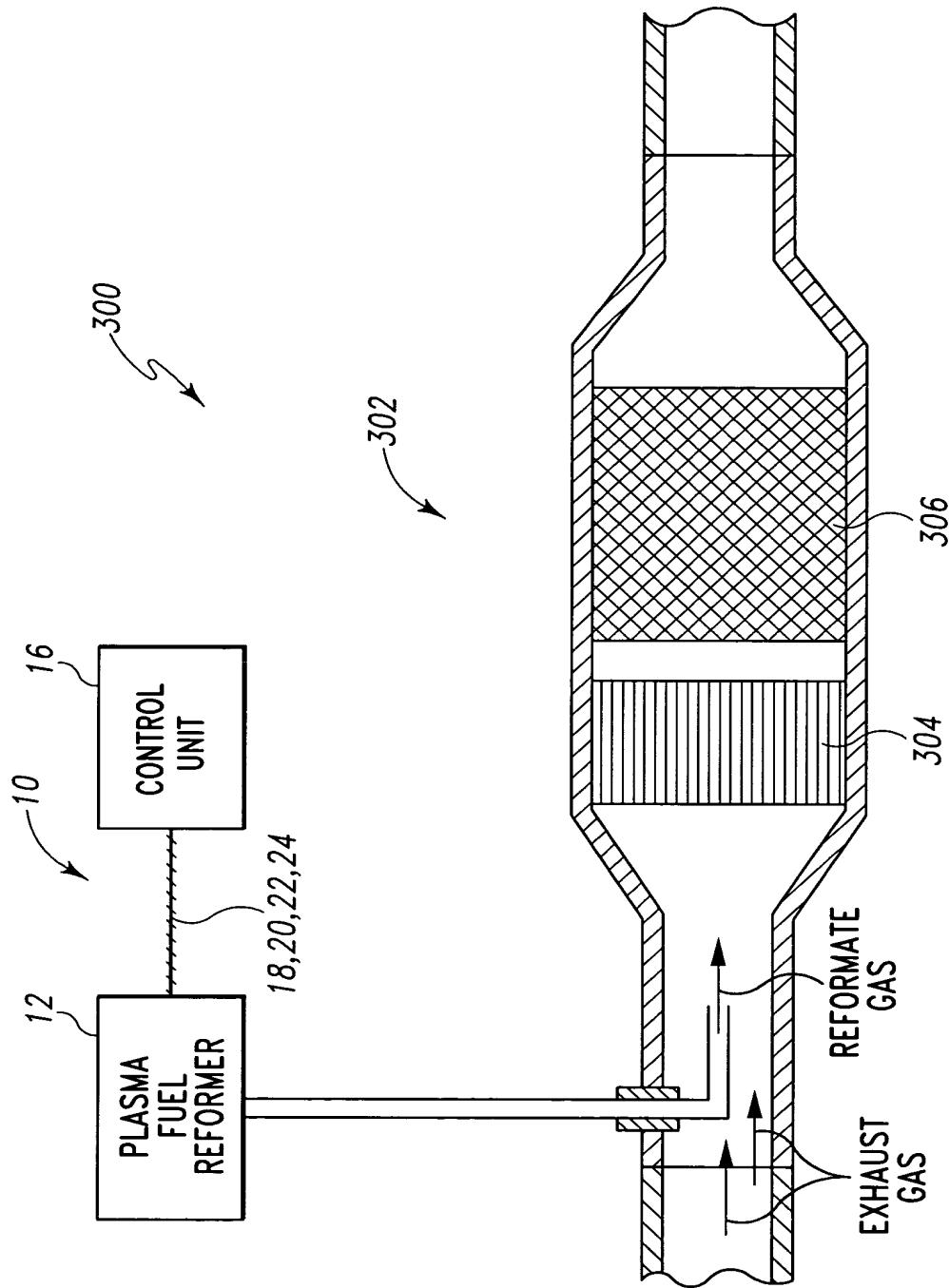


Fig. 7

8 / 15

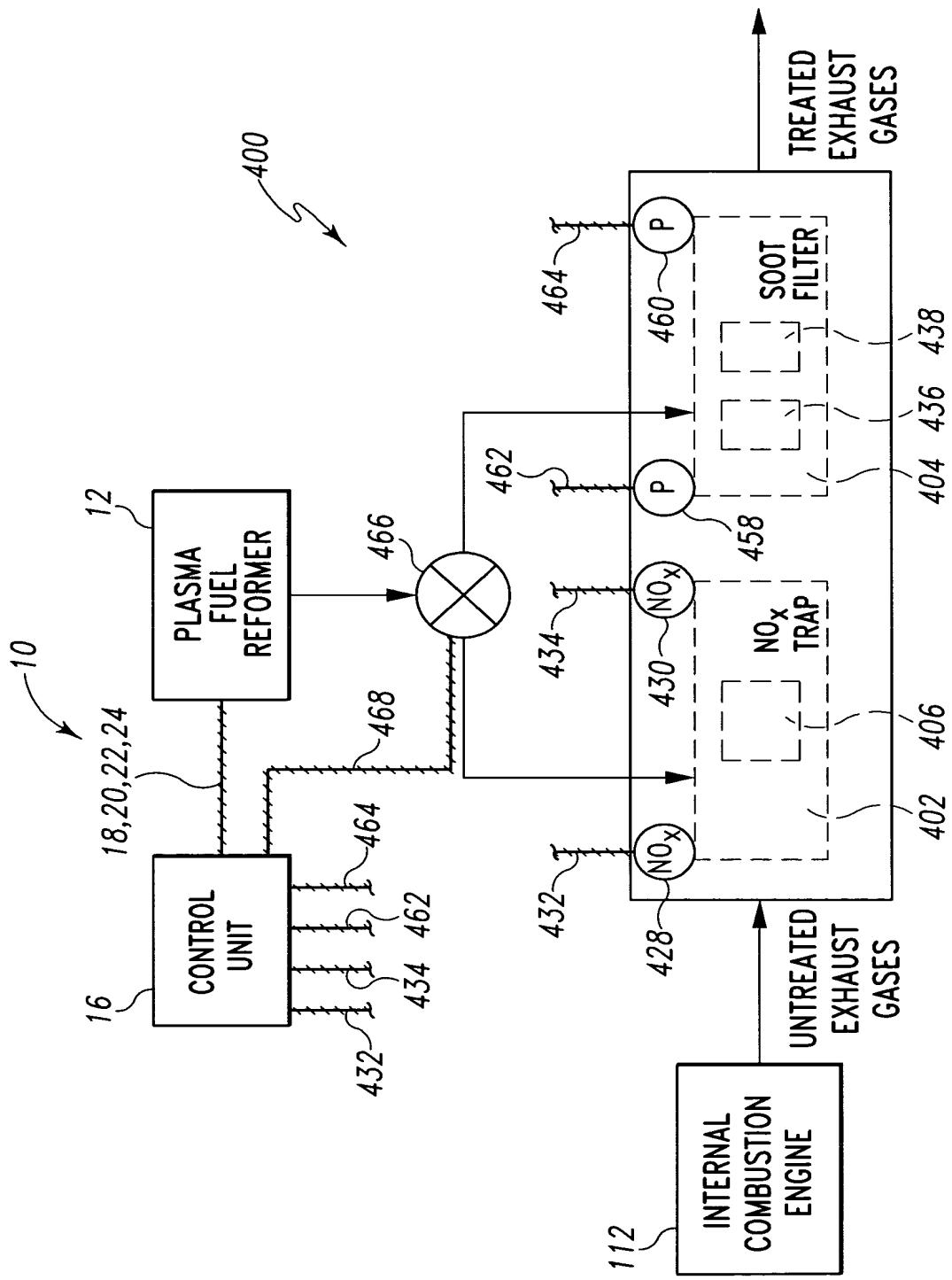


Fig. 8

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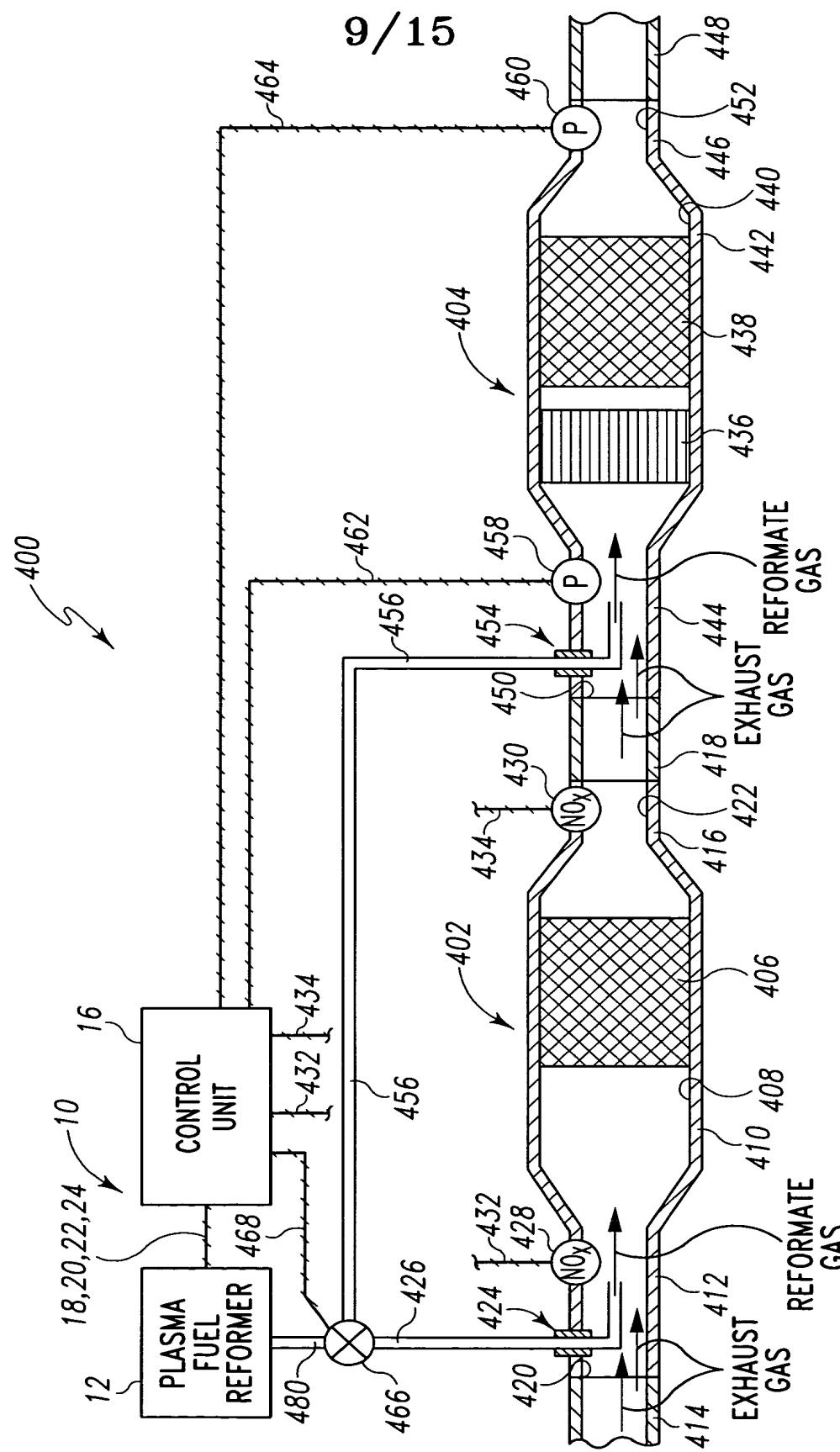


Fig. 9

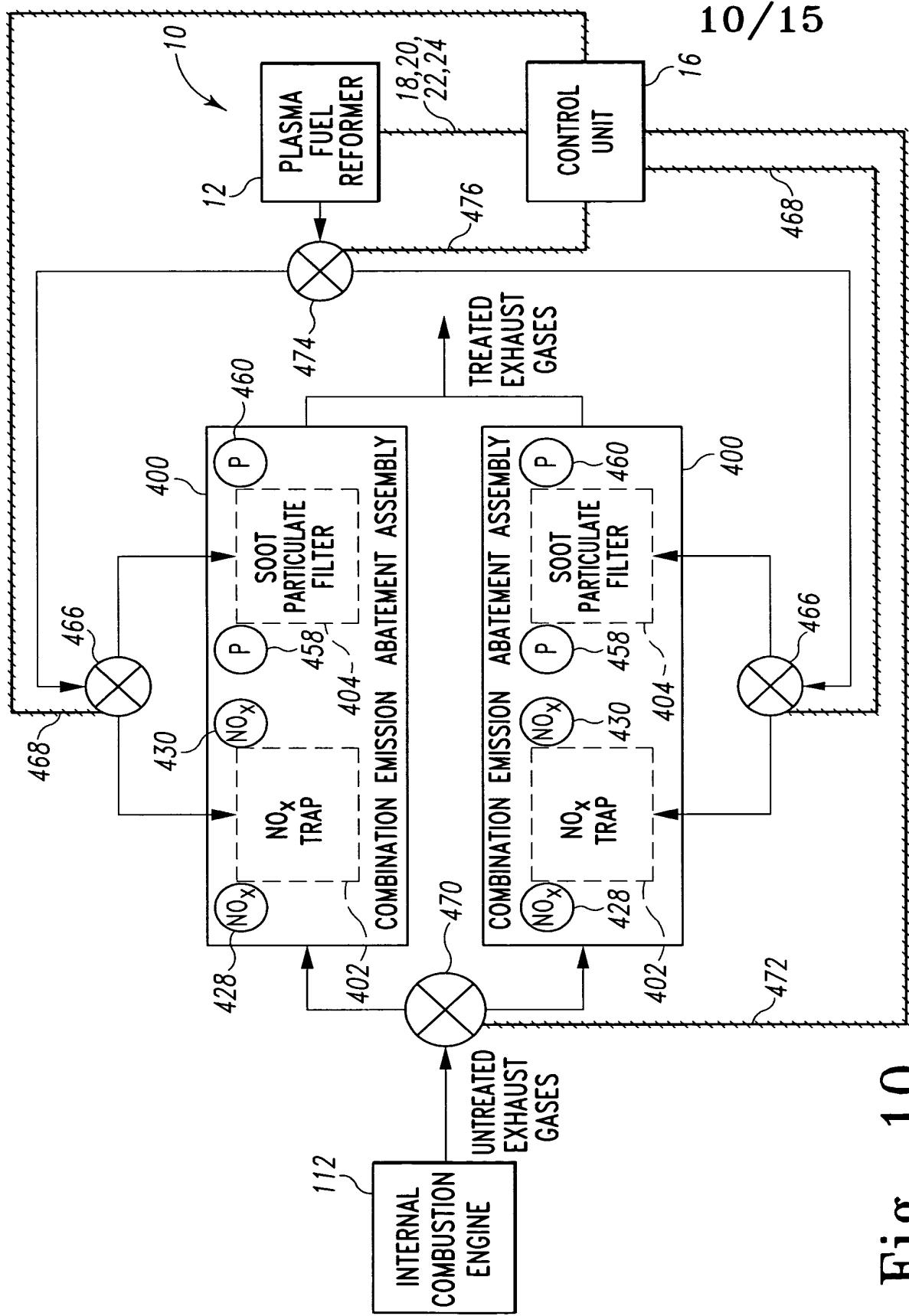


Fig. 10

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11 / 15

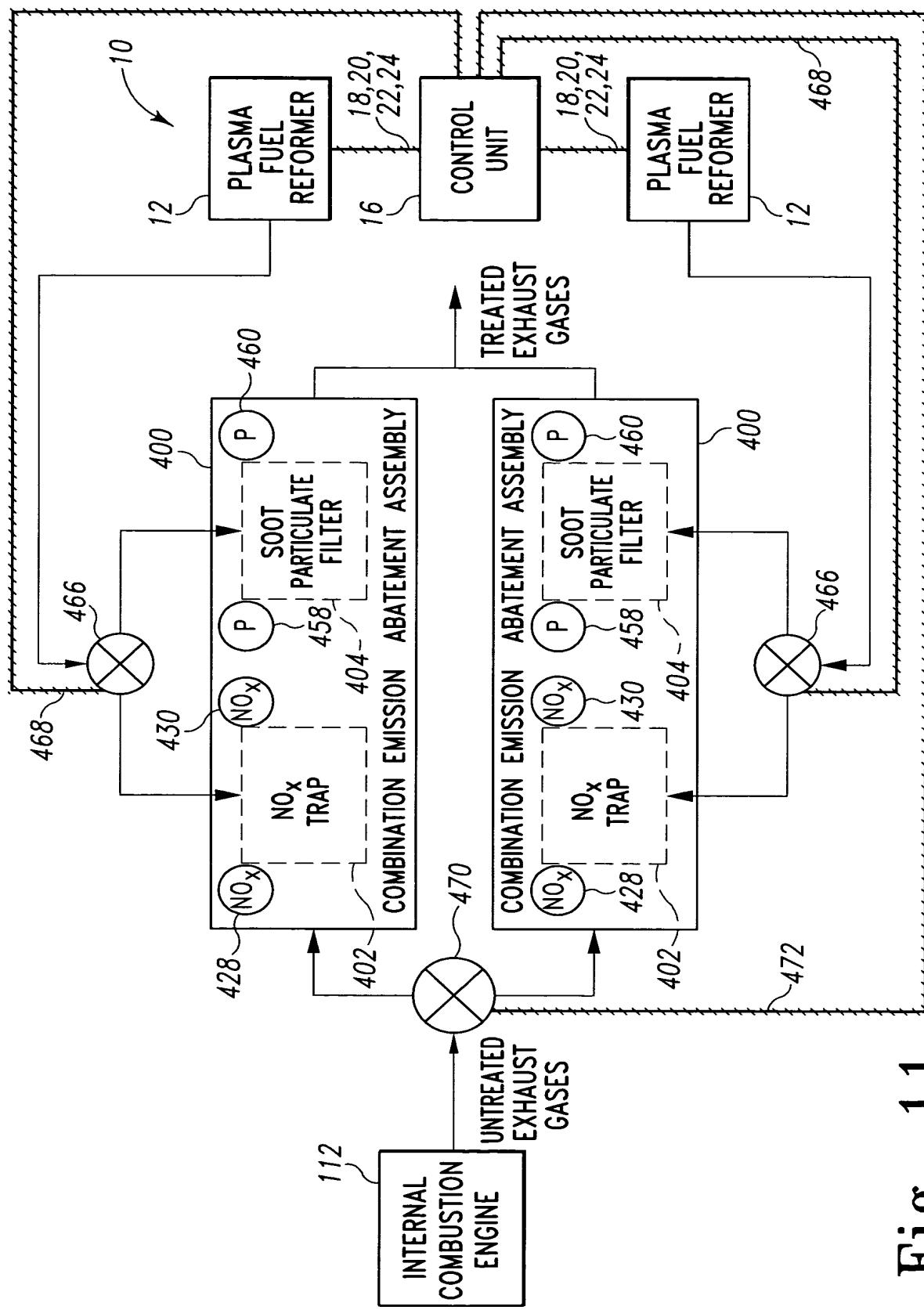


Fig. 11

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The diagram illustrates a system for reducing NO_x emissions from an internal combustion engine. The system includes an **INTERNAL COMBUSTION ENGINE** (112) connected to a **PLASMA FUEL REFORMER** (12). The reformer is connected to a **DIESEL OXIDATION CATALYST** (506). Two **DPNR DEVICE**s (502, 538) are positioned on either side of the catalyst. Each DPNR device has a pressure gauge (P) and is connected to a **CONTROL UNIT** (550). A sensor (542) monitors the NO_x level at the catalyst inlet, and another (544) monitors it at the outlet. Arrows indicate the flow of air (500) through the system.

Fig. 12

13/15

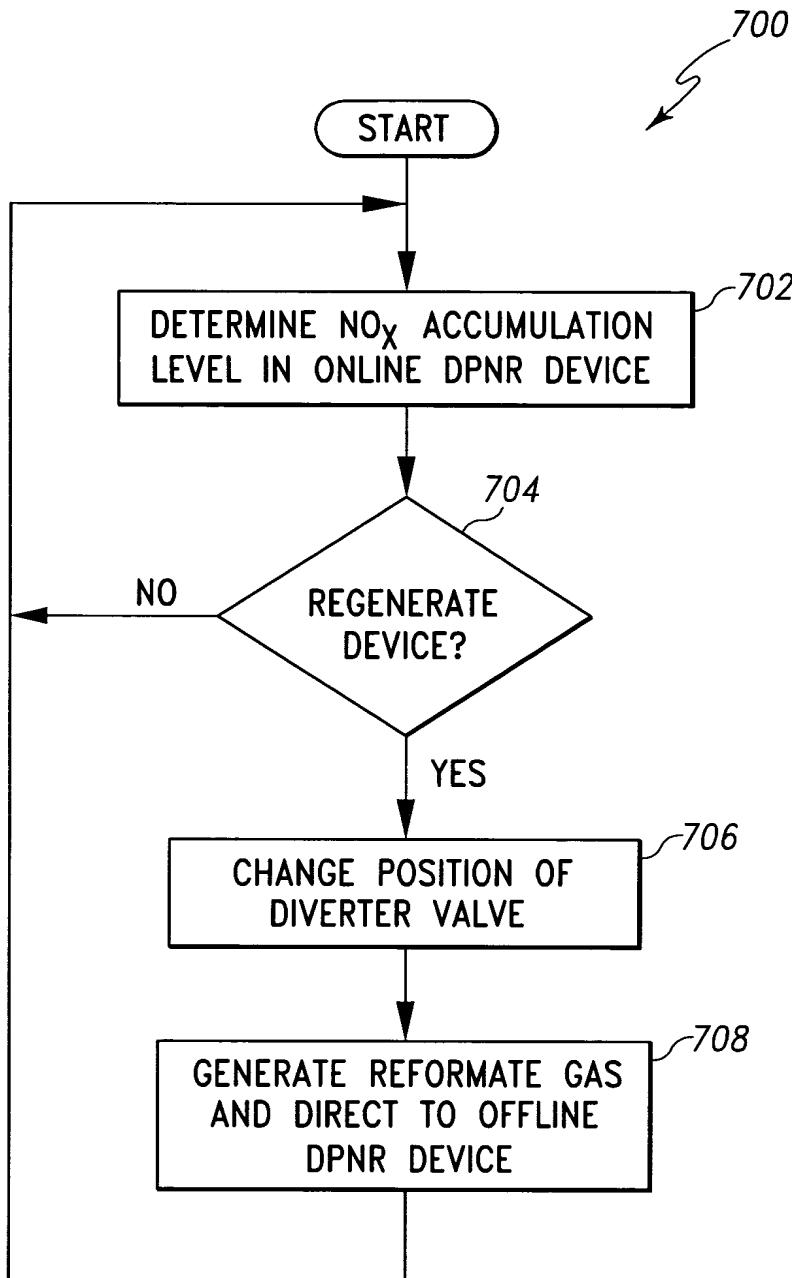


Fig. 13

14/15

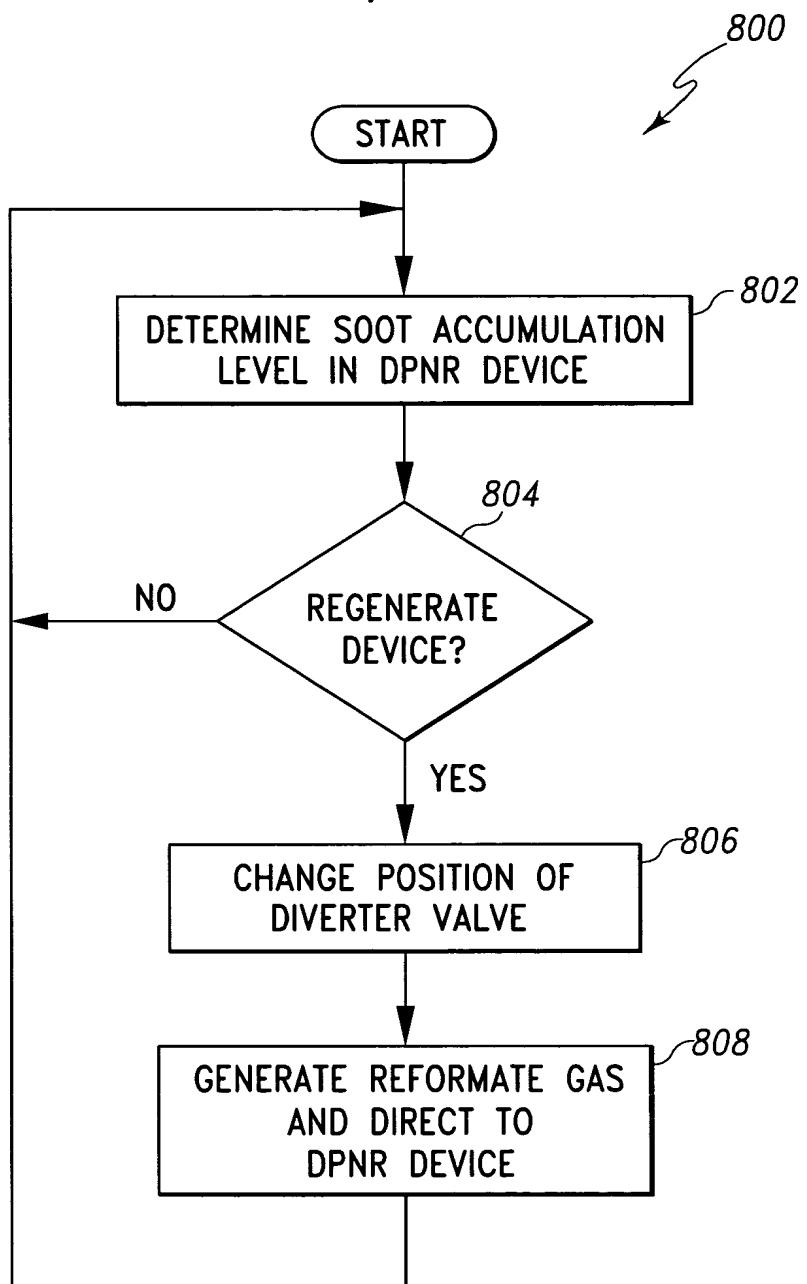


Fig. 14

15/15

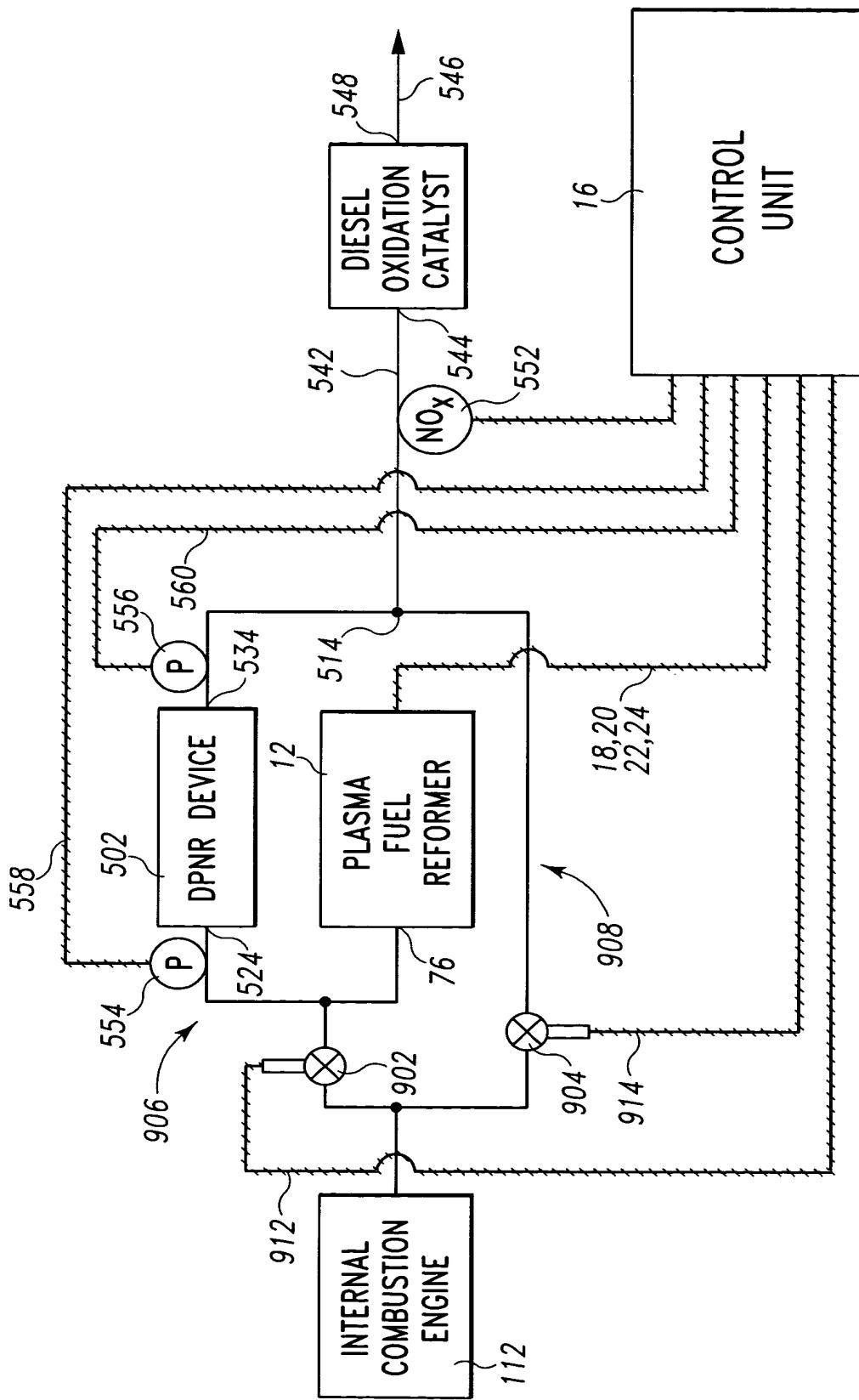


Fig. 15